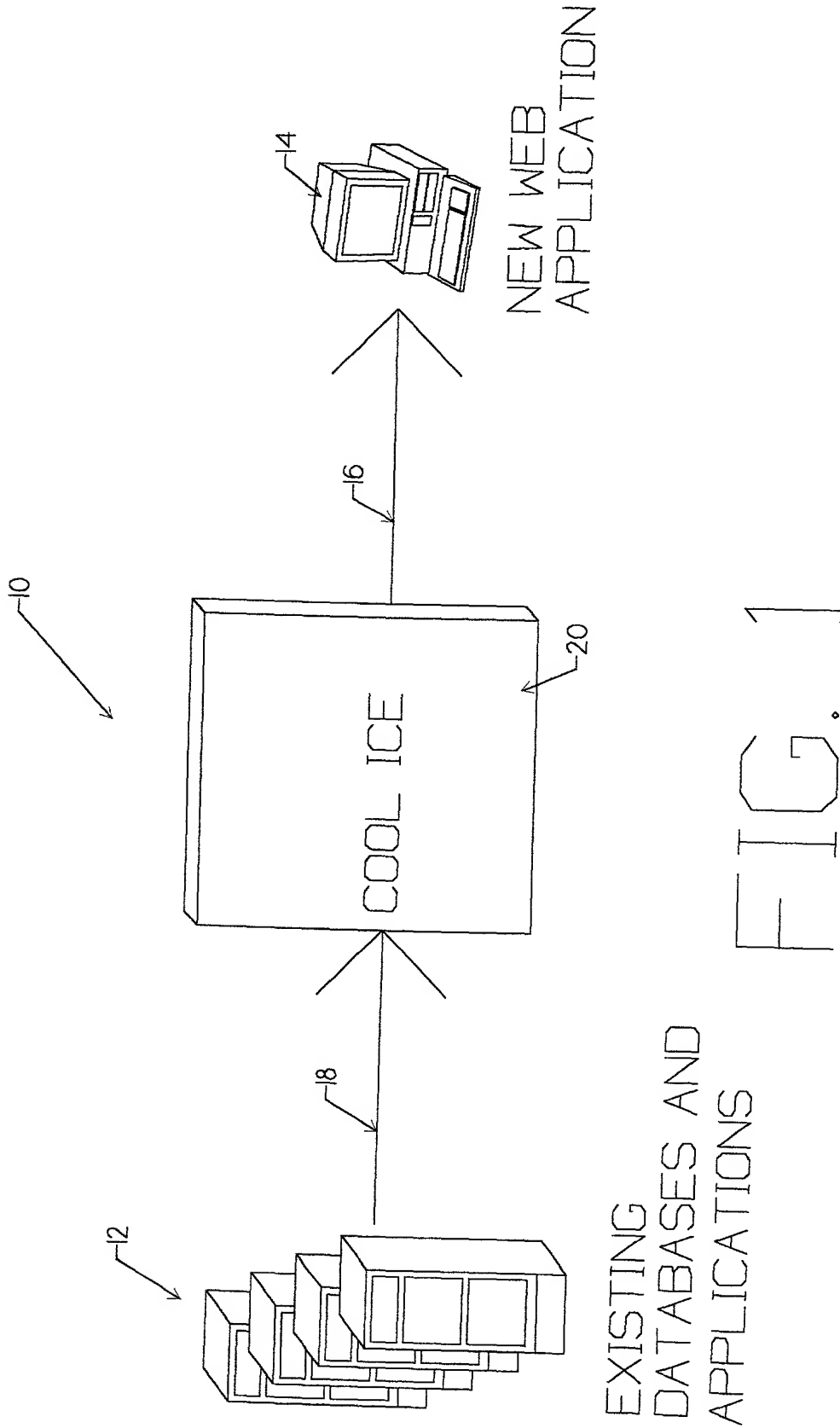


FIG. 1



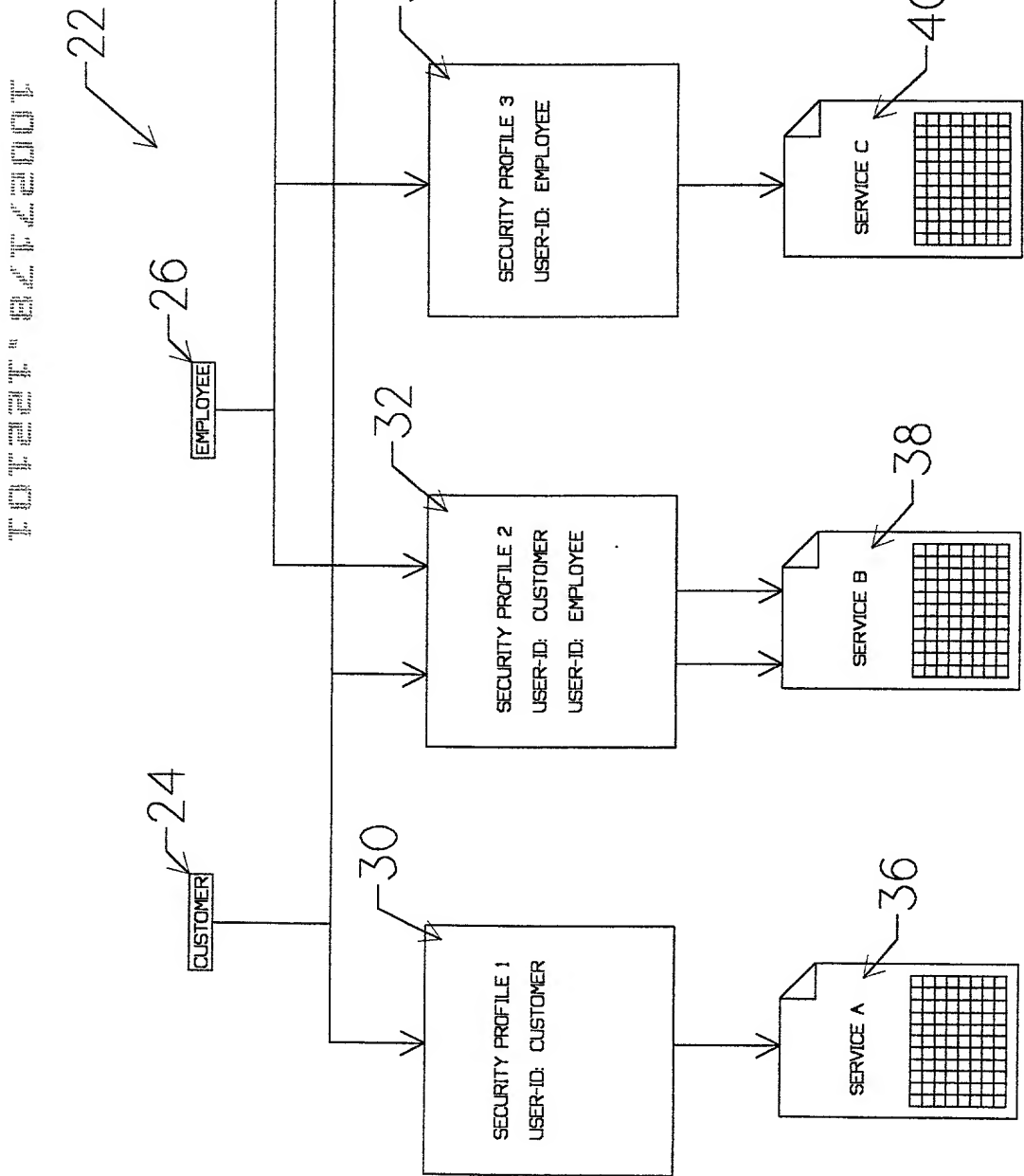


FIG. 2

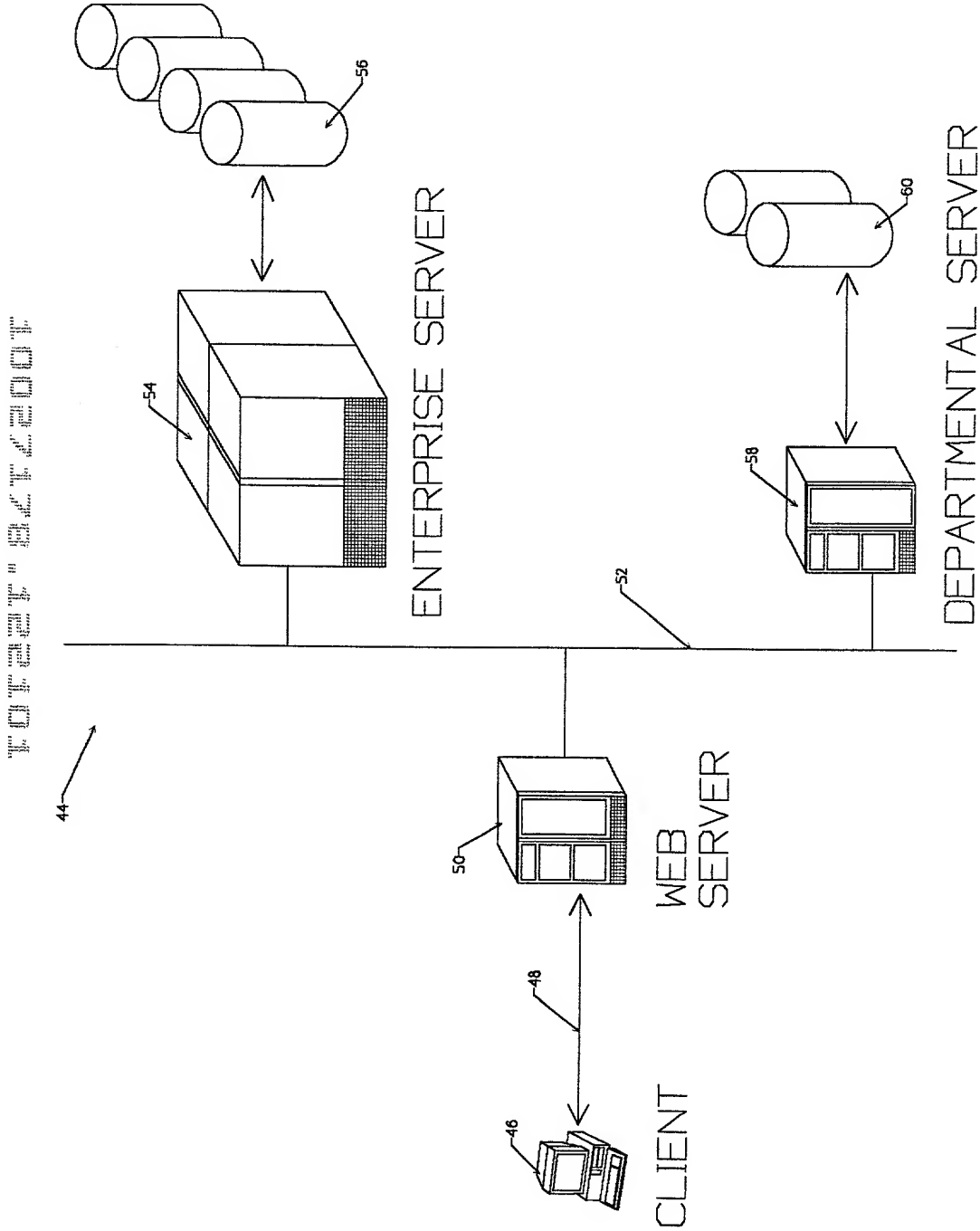


FIG. 3

FIG. 4

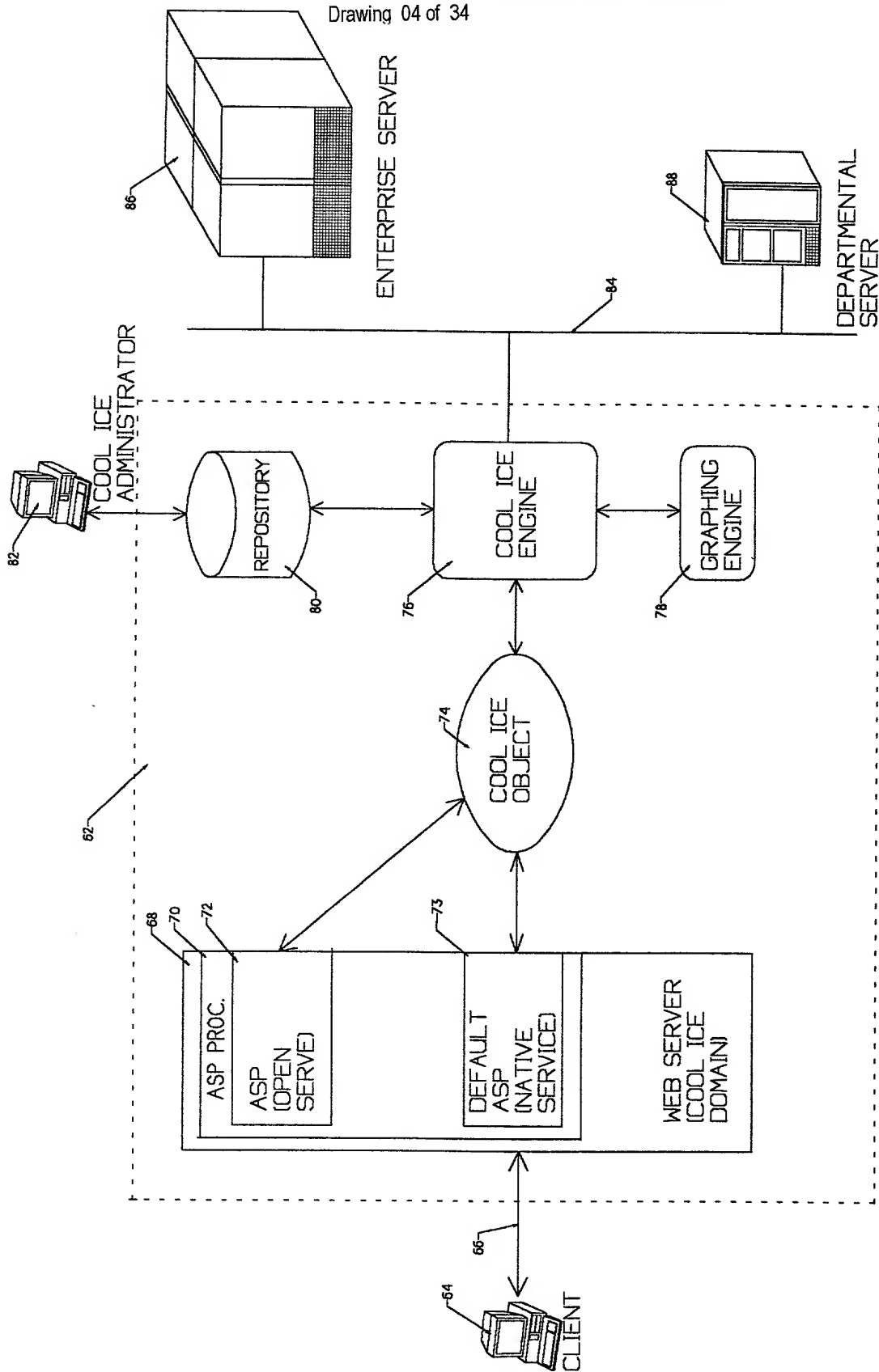


FIG. 4

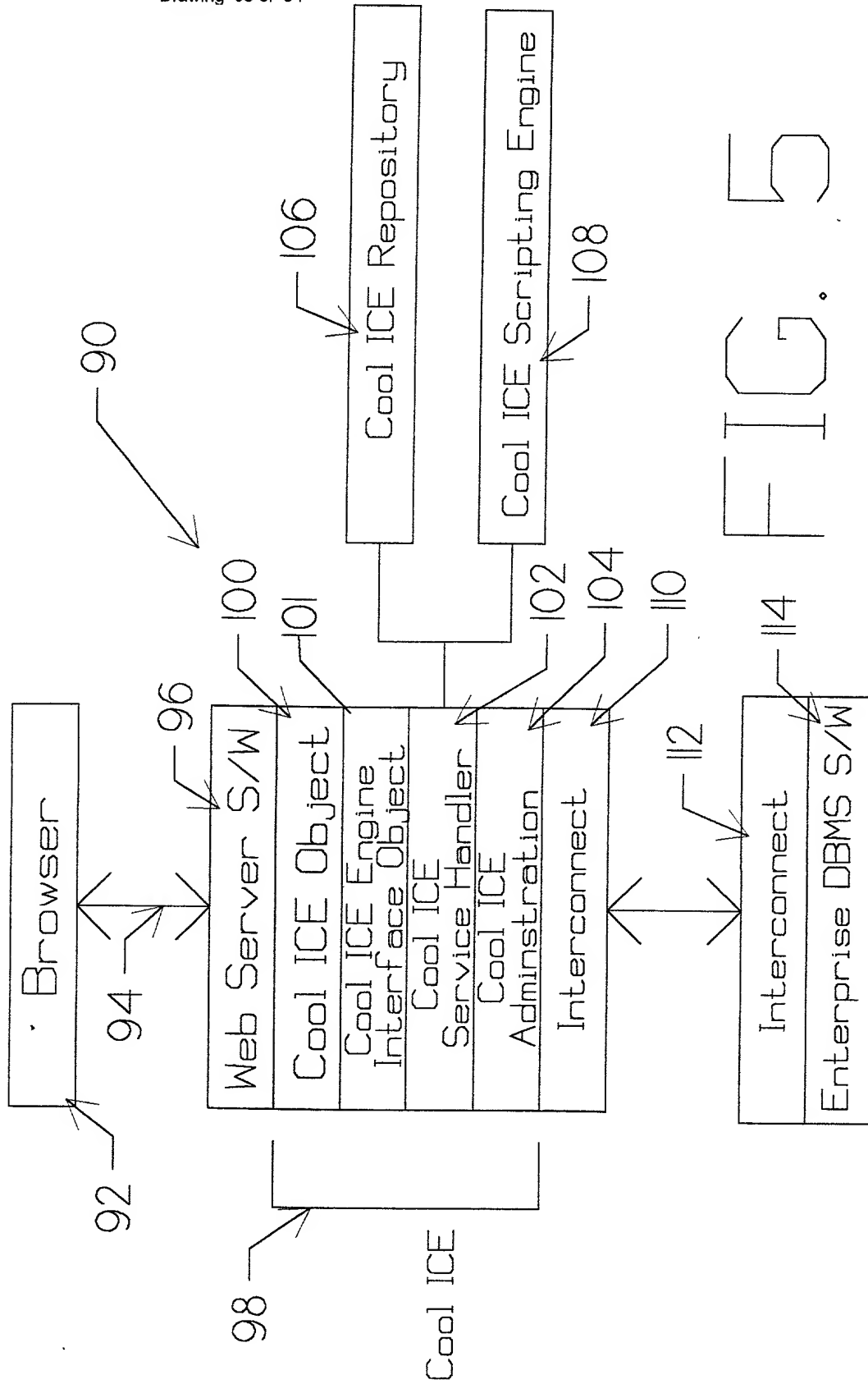


FIG. 5

FIG. 5

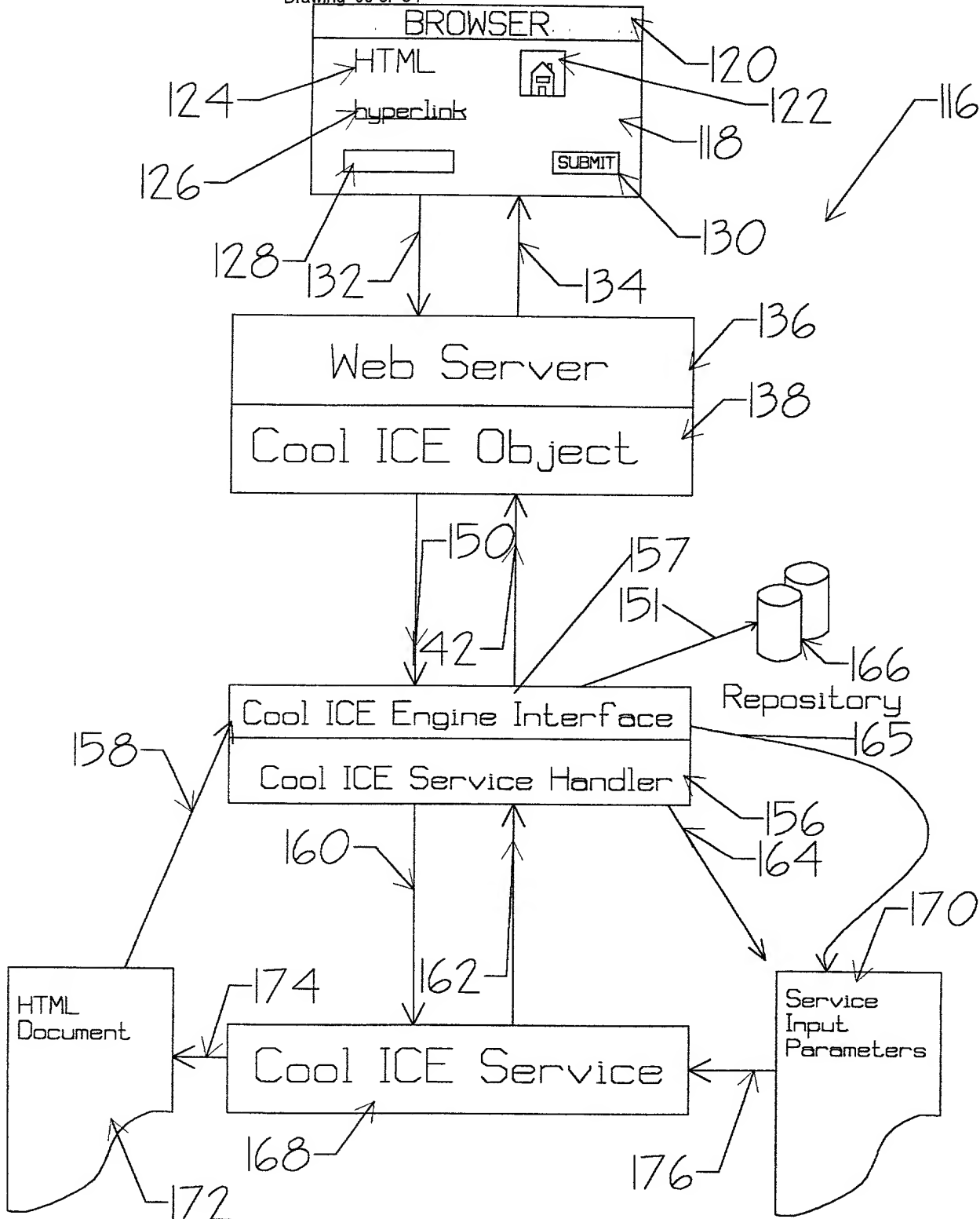


FIG. 6

1003743-122101

FIG. 7

FIG. 8

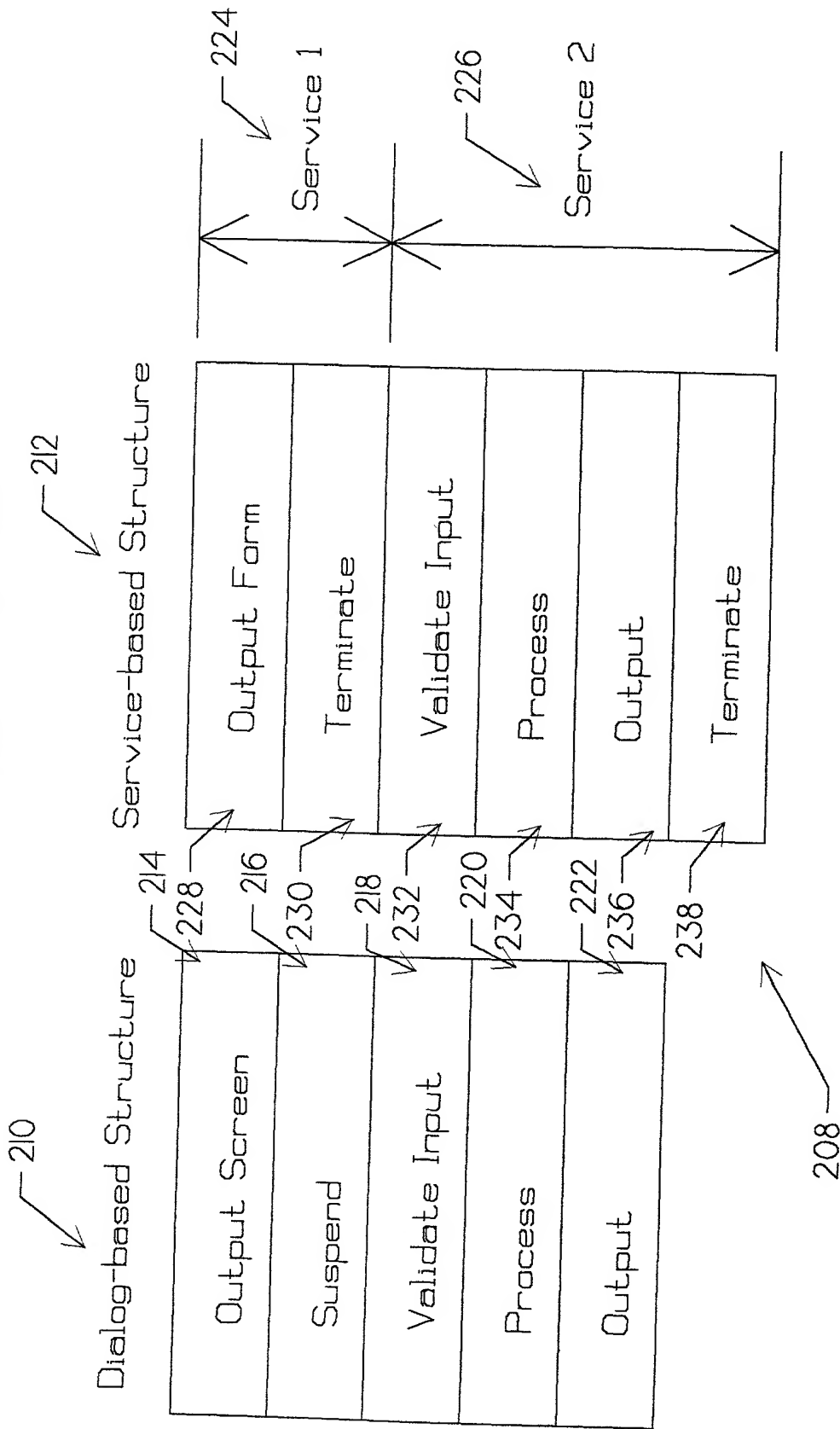


FIG. 8

FIG. 9

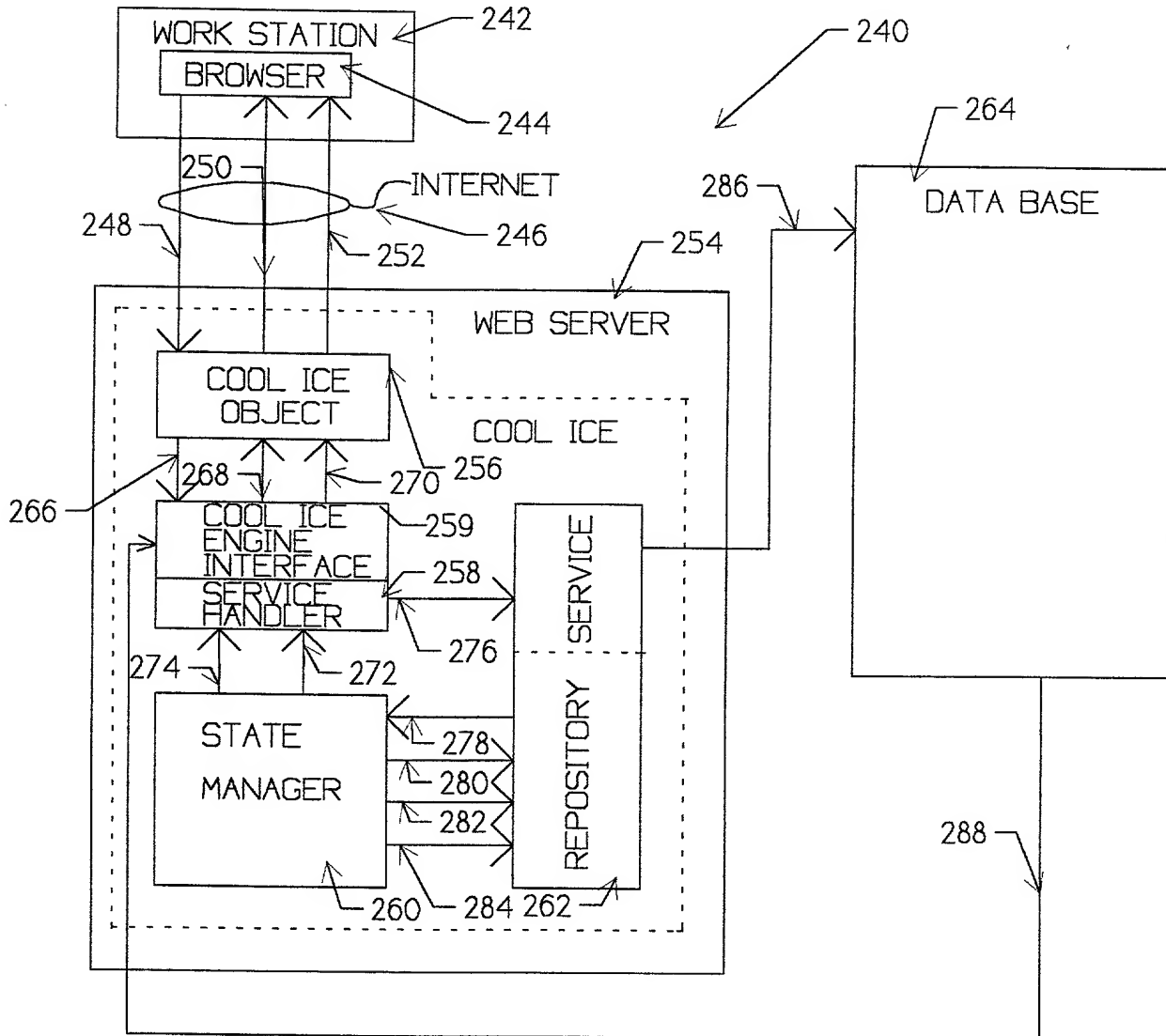


FIG. 9

FIG. 10

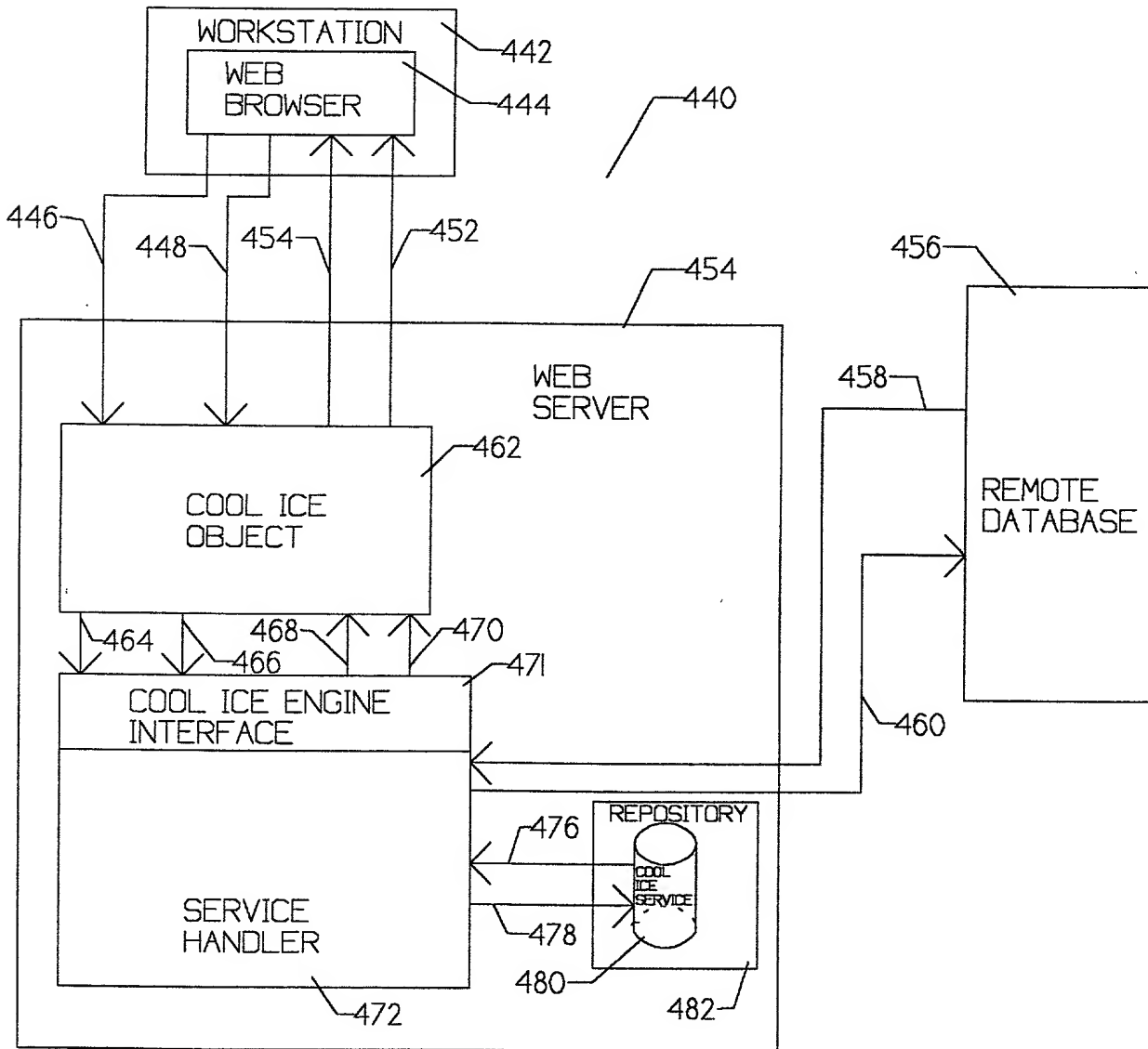
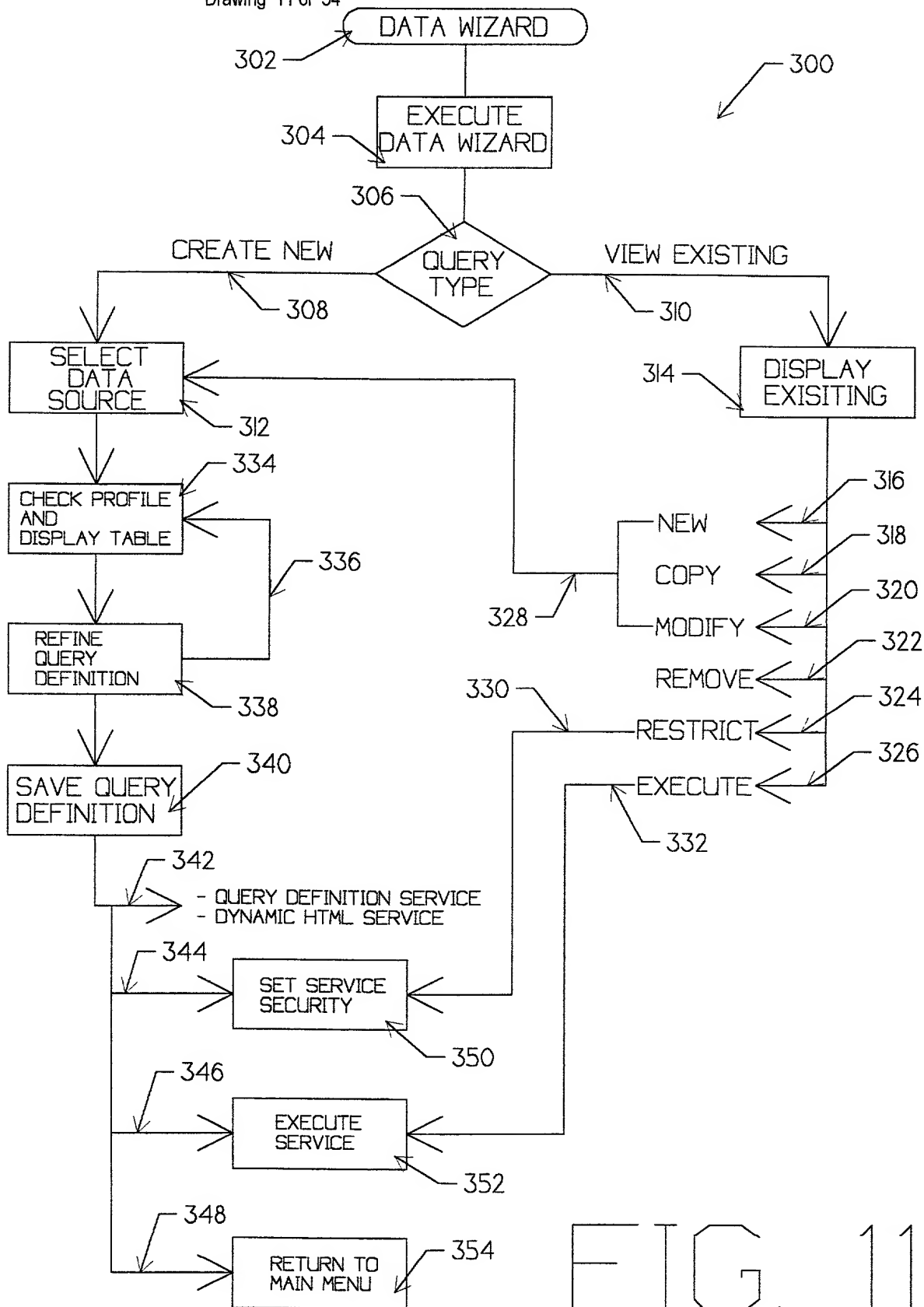


FIG. 10



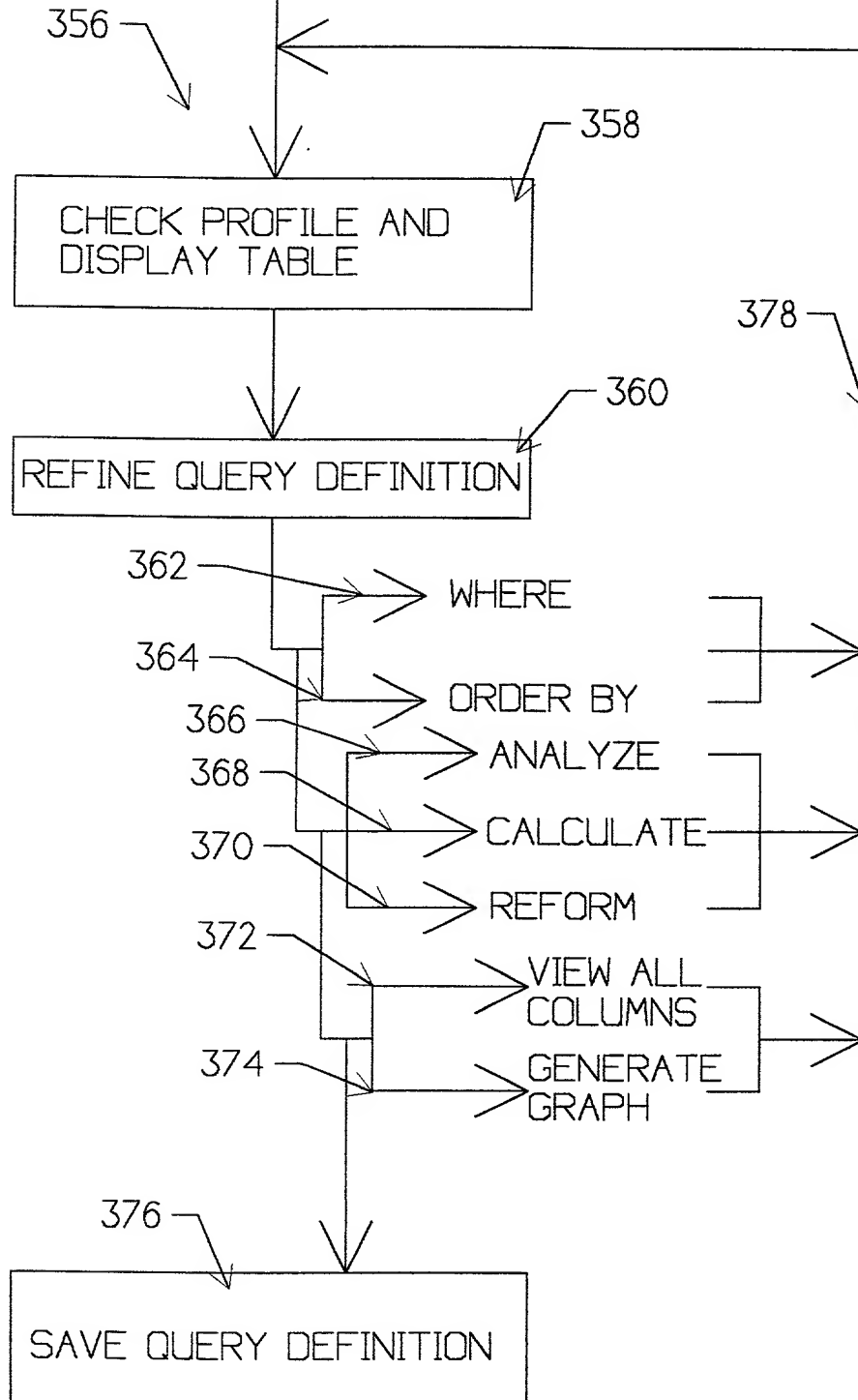


FIG. 12

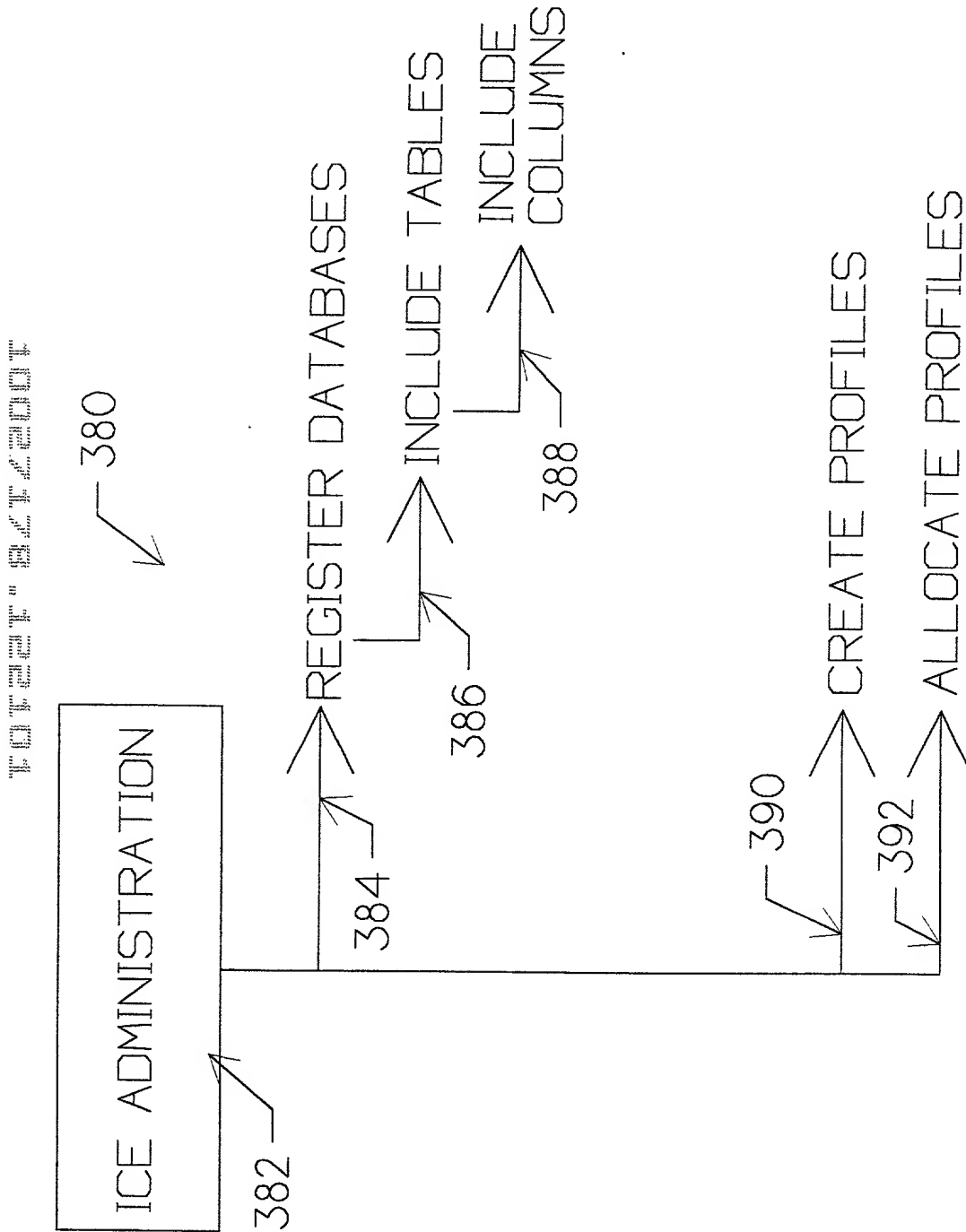


FIG. 13

FIG. 14

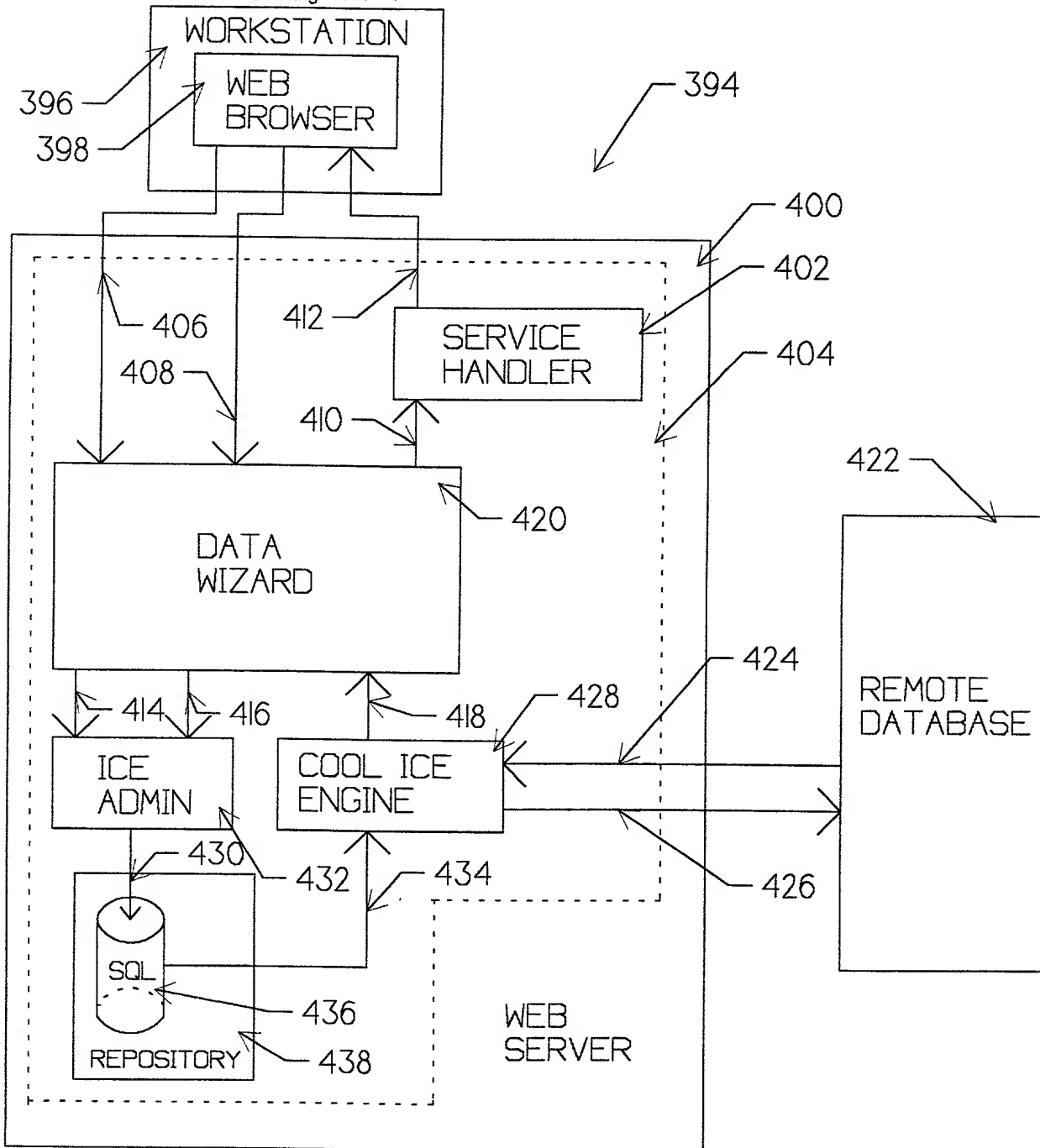


FIG. 14

FIG. 15

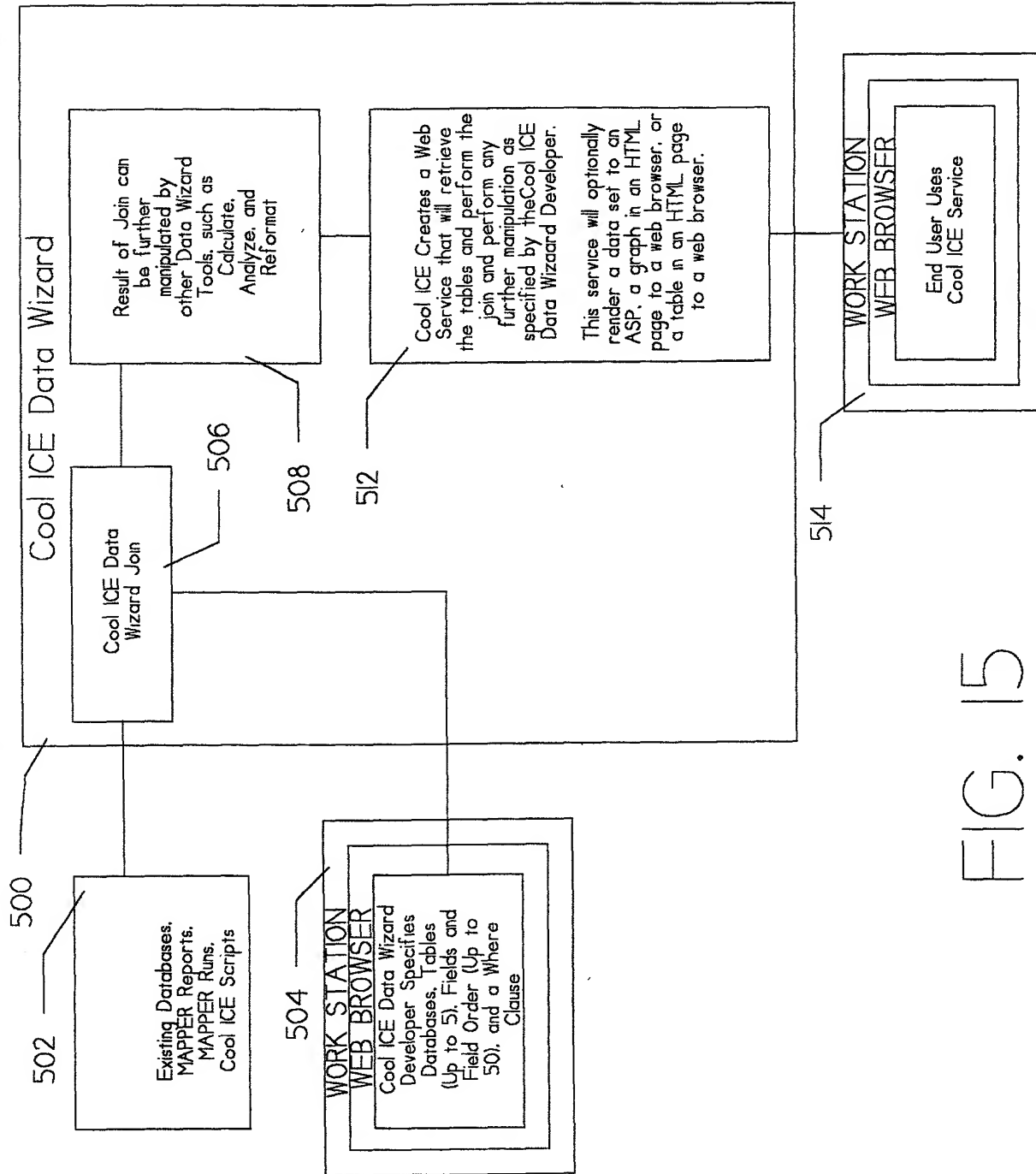


FIG. 15

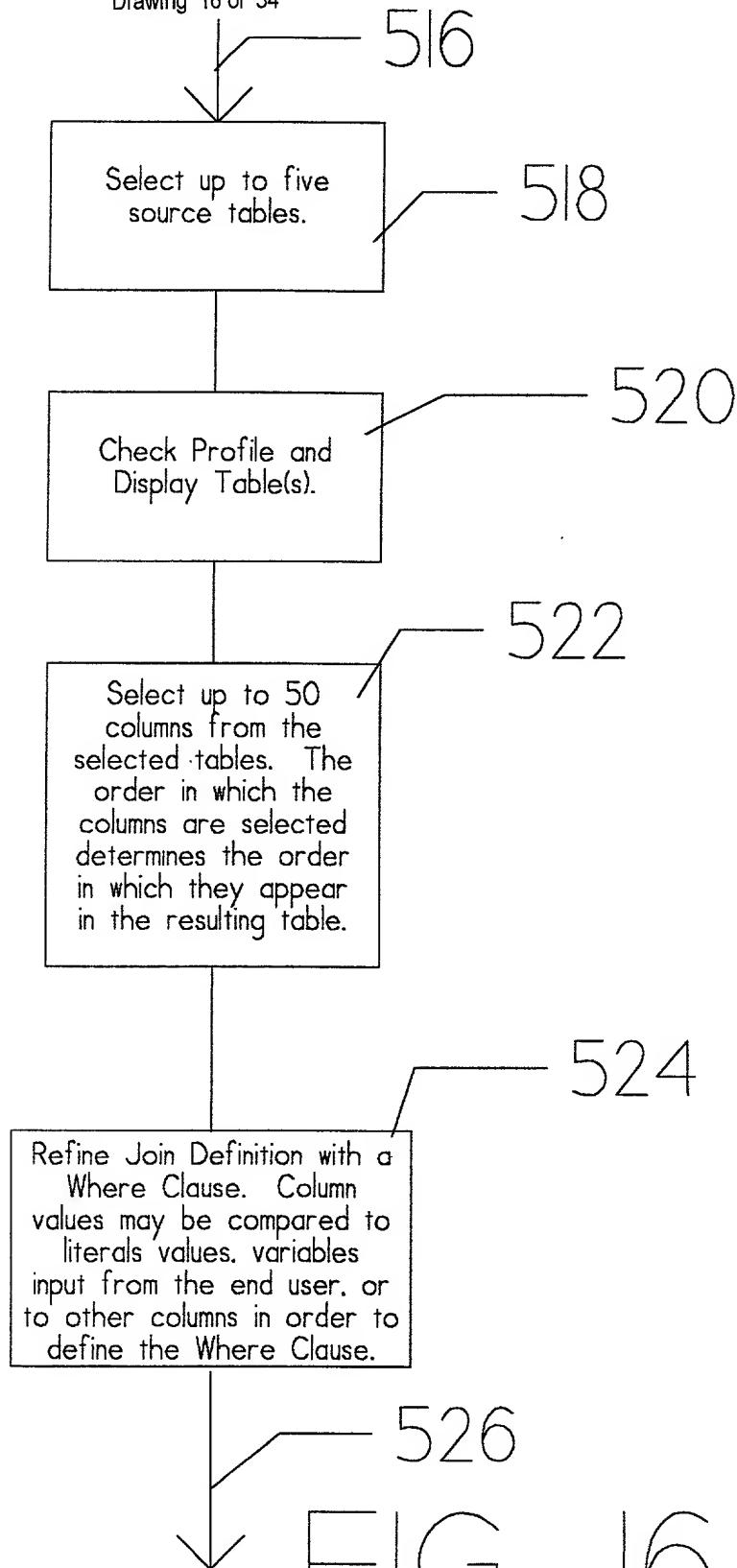


FIG. 16

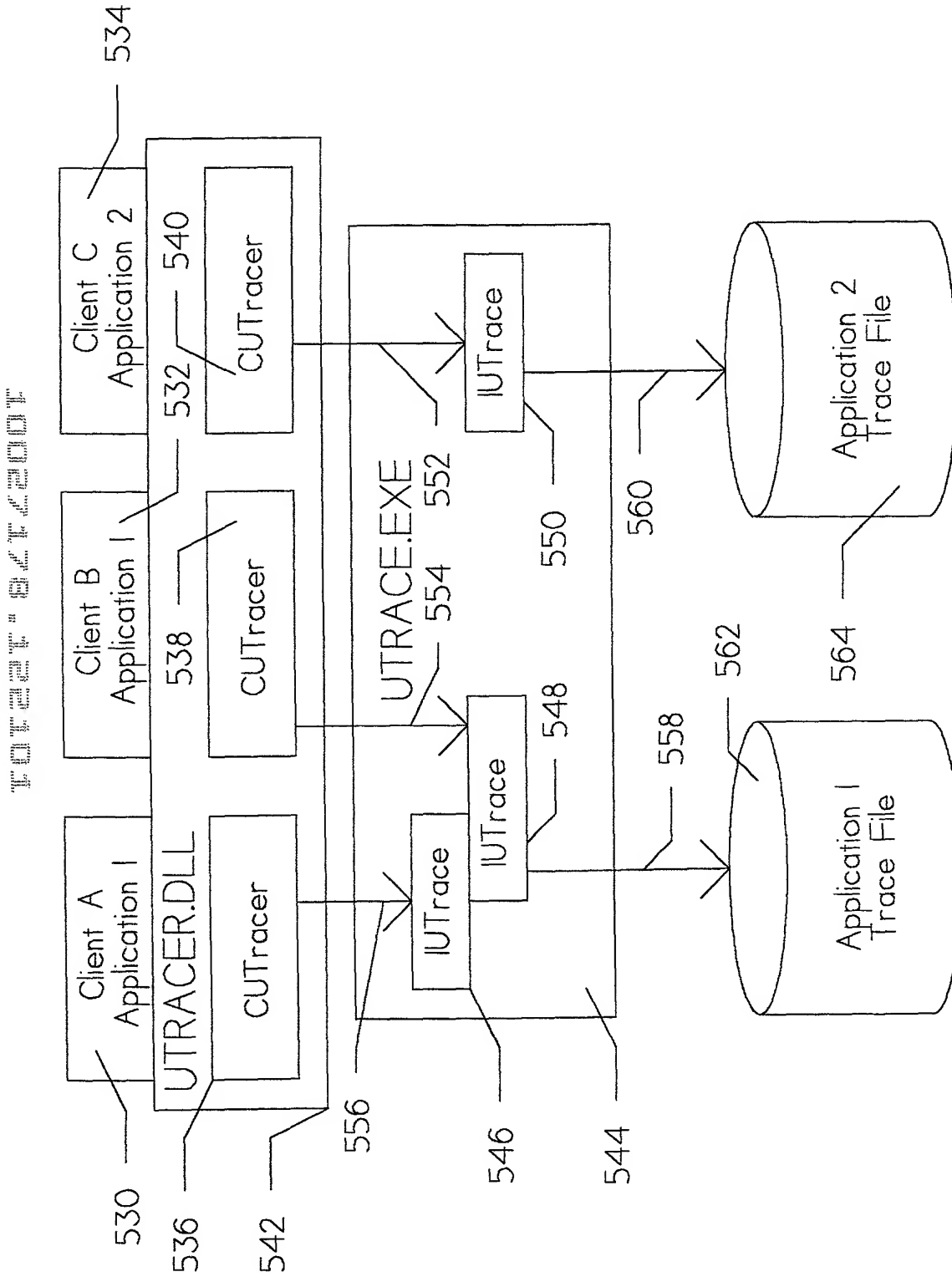


FIG. 17

HKLM\SOFTWARE\UNISYS\UTRACE

565

APPNAME -- Subkey matching the name of the application

ENABLETRACE -- DWORD value indicating a Boolean (1=trace, 0=no trace).

MAXENTRIES -- DWORD value indicating the maximum number of entries in the trace file. If missing, then no upper limit is imposed.

FORMATFLAGS -- DWORD value indicating message formatting flags.

POLICYFLAGS -- DWORD value indicating trace policy flags set for the application.

TRACELEVEL -- DWORD value indicating a trace level. 0 = no trace.

TRACEPATH -- String value indicating the directory path for the trace files.

REGTRACE -- A string value containing the HKLM\Software sub key to trace for this application. Blank or missing for no registry trace.

COMPONENT -- A subkey for a specific component of the application.

POLICYFLAGS -- Value indicating component level trace policy flags

TRACELEVEL -- DWORD Value indicating a trace level. 0 = no trace.

VERSIONTRACE-- String value specifying executable component name for version information tracing.

FIG. 18

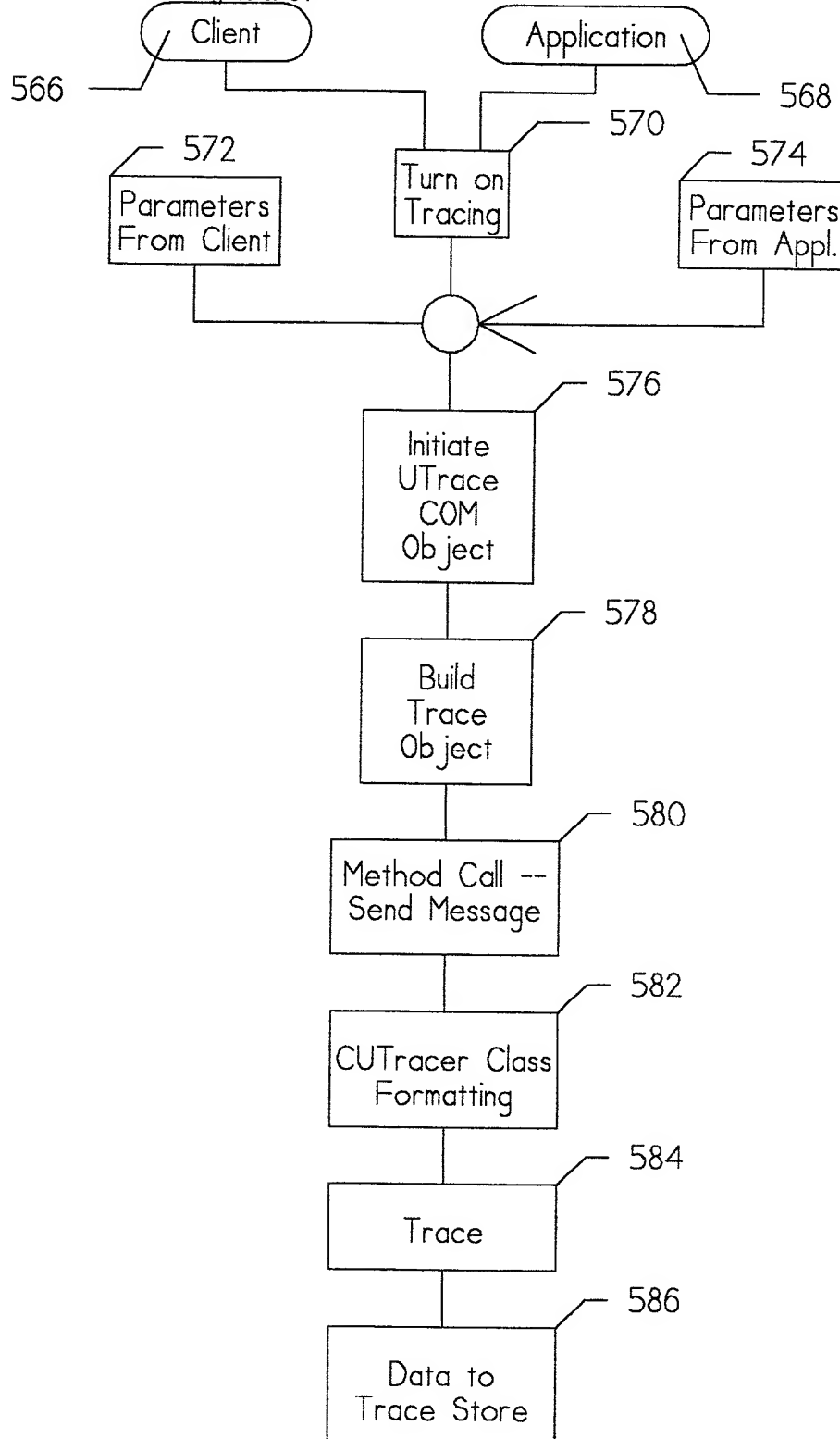


FIG. 19

100249-122101

```
#define CI_TRACE_VERSION      0x1  
#define CI_TRACE_ERROR       0x2  
#define CI_TRACE_INTERFACE    0x4  
#define CI_TRACE_FLOW         0x8  
#define CI_TRACE_DETAIL      0x10
```

FIG. 20A

```
if (m_trace.Active(CI_TRACE_DETAIL))  
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit
```

FIG. 20B

10027478-132401

FIG. 21

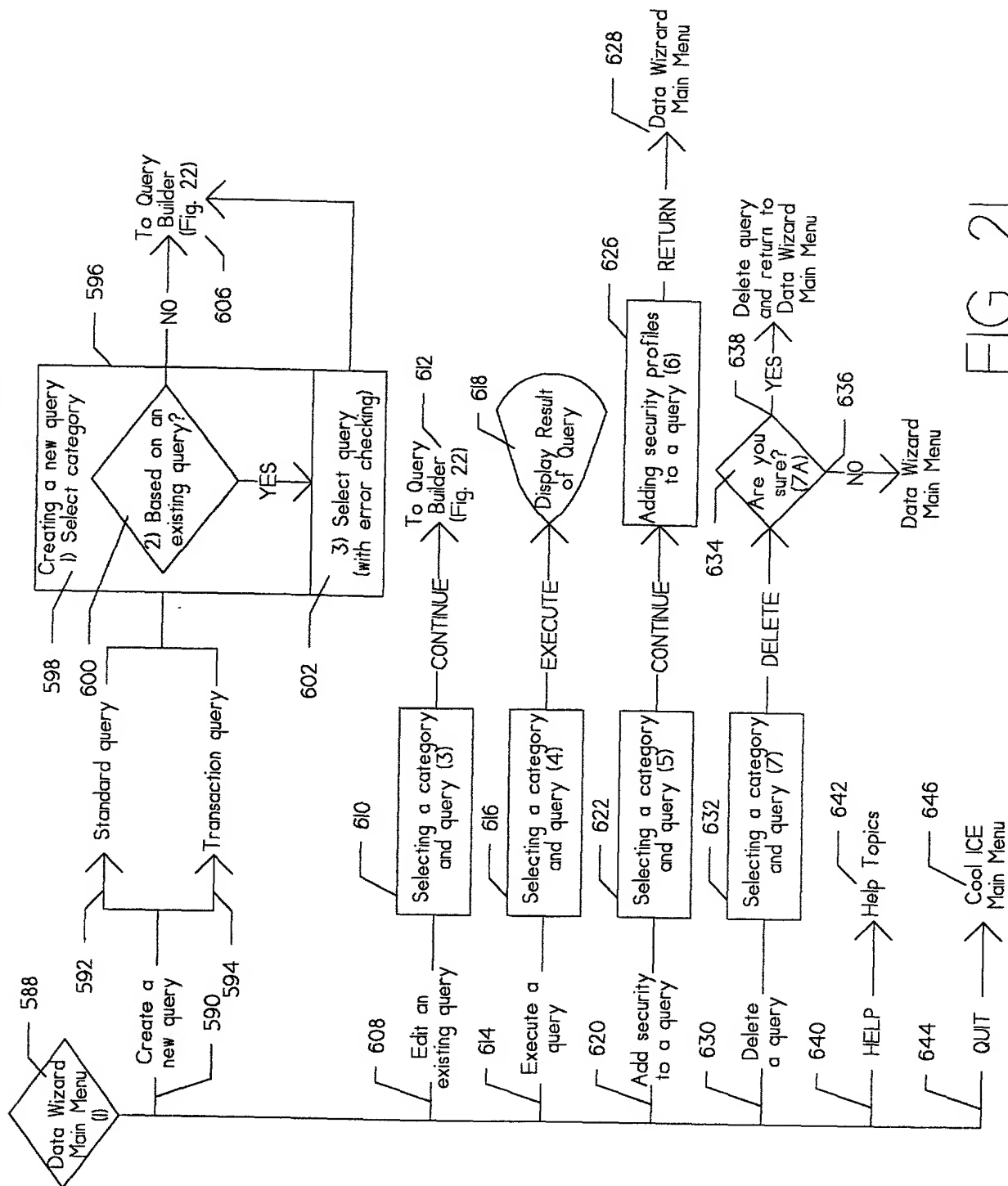


FIG. 21

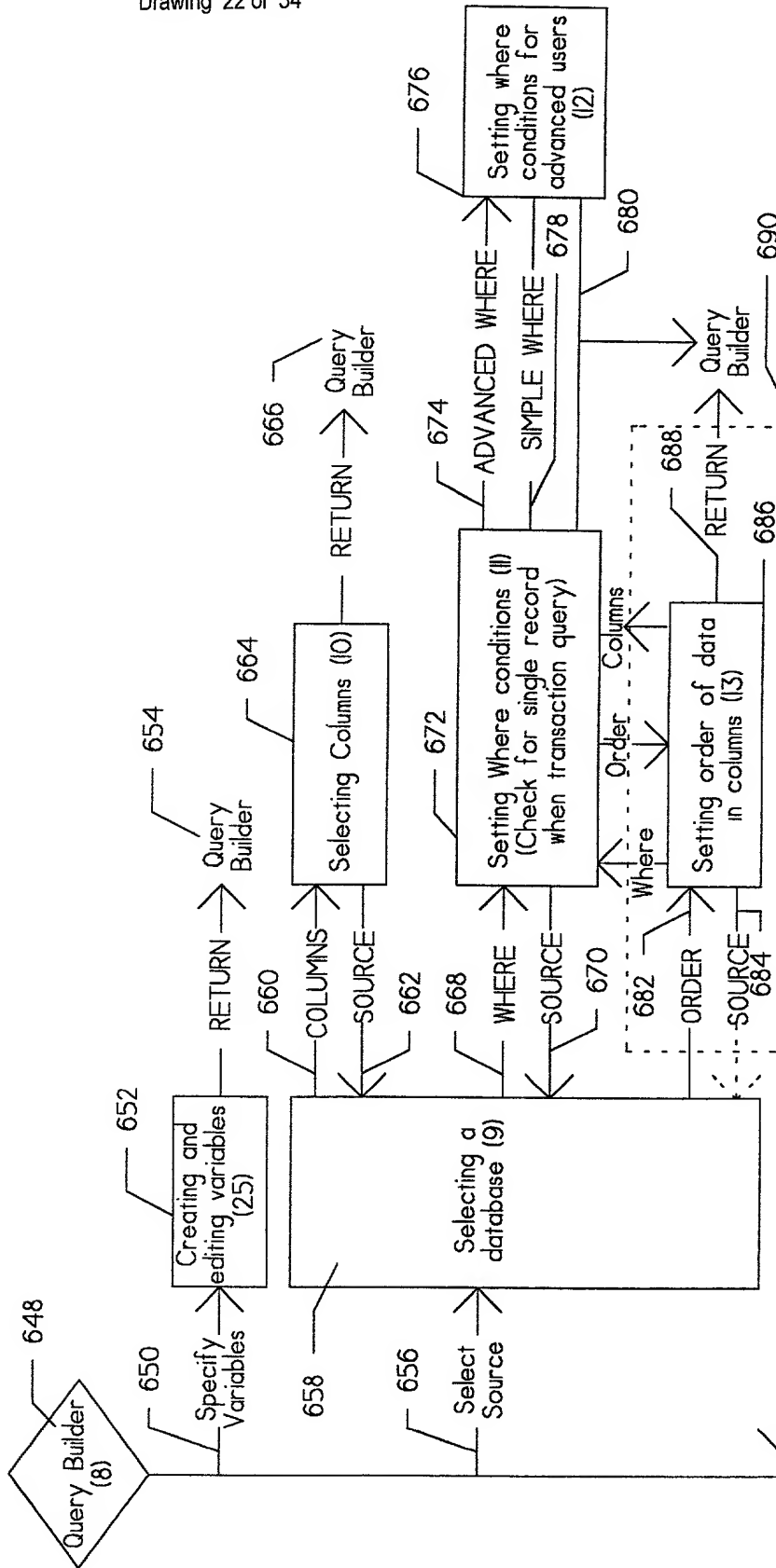


FIG. 22A

FIG. 22A

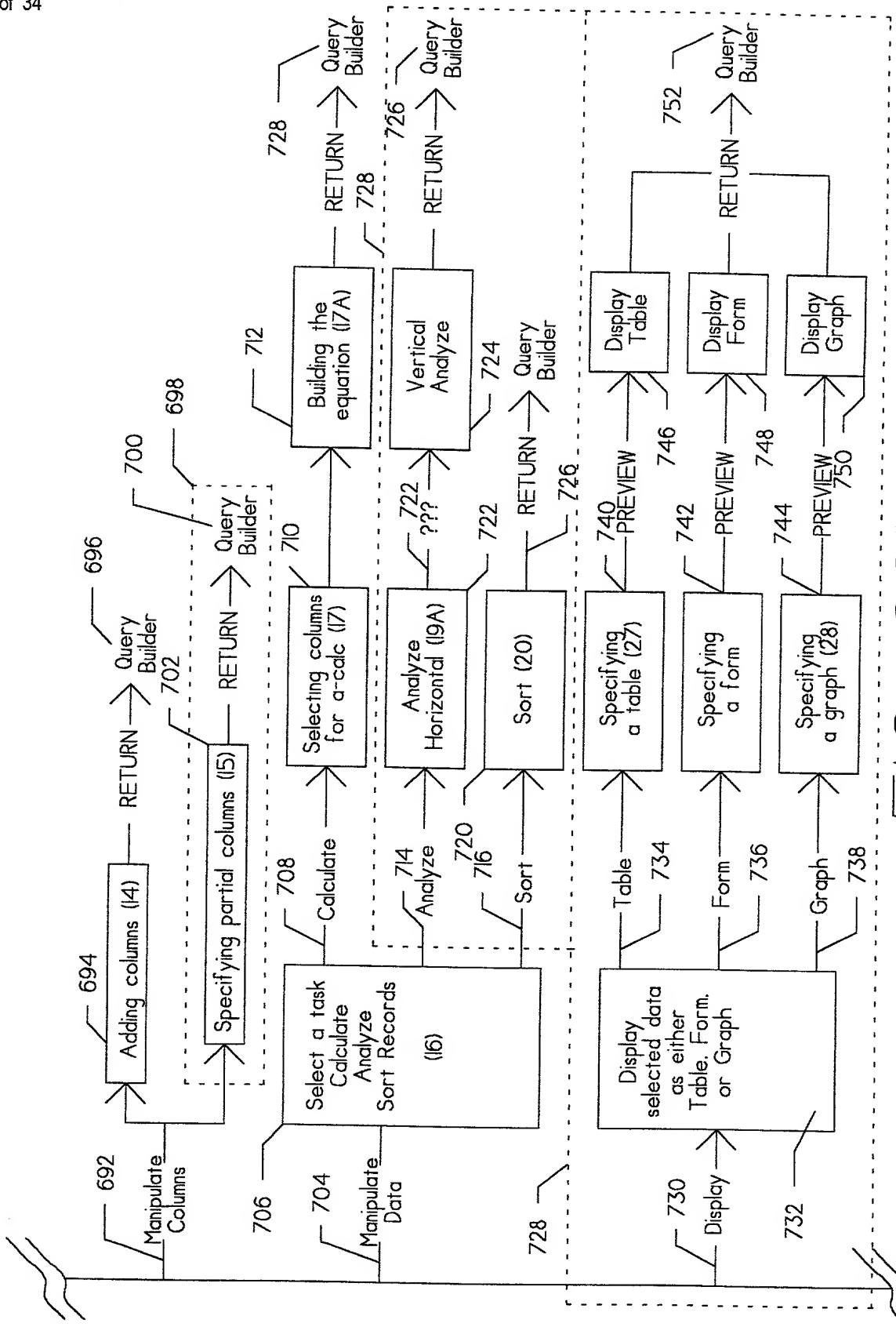
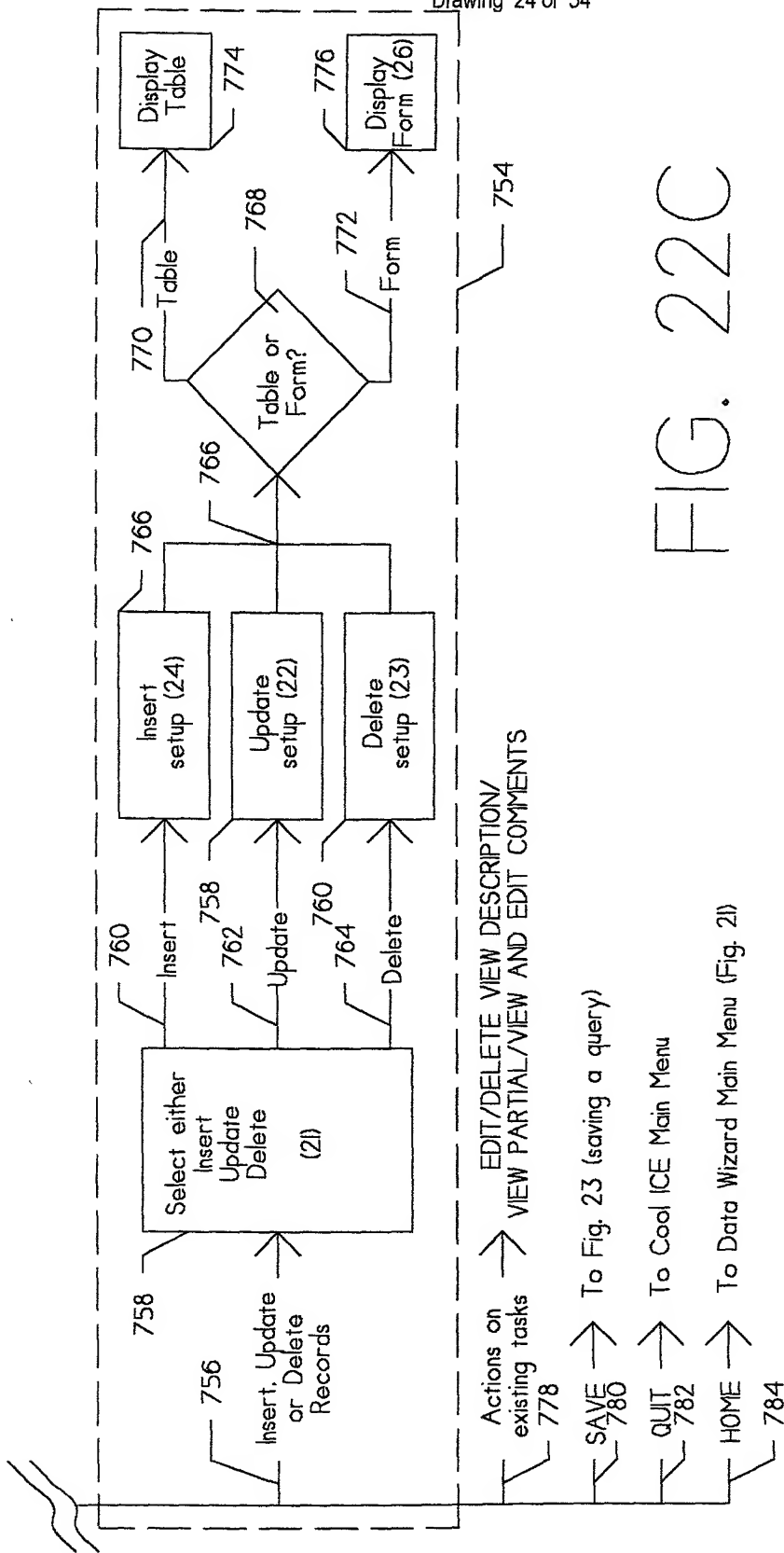


FIG. 22B



Actions on existing tasks → EDIT/DELETE VIEW DESCRIPTION/
 VIEW PARTIAL/VIEW AND EDIT COMMENTS

SAVE → To Fig. 23 (saving a query)

QUIT → To Cool ICE Main Menu

HOME → To Data Wizard Main Menu (Fig. 21)

FIG. 23

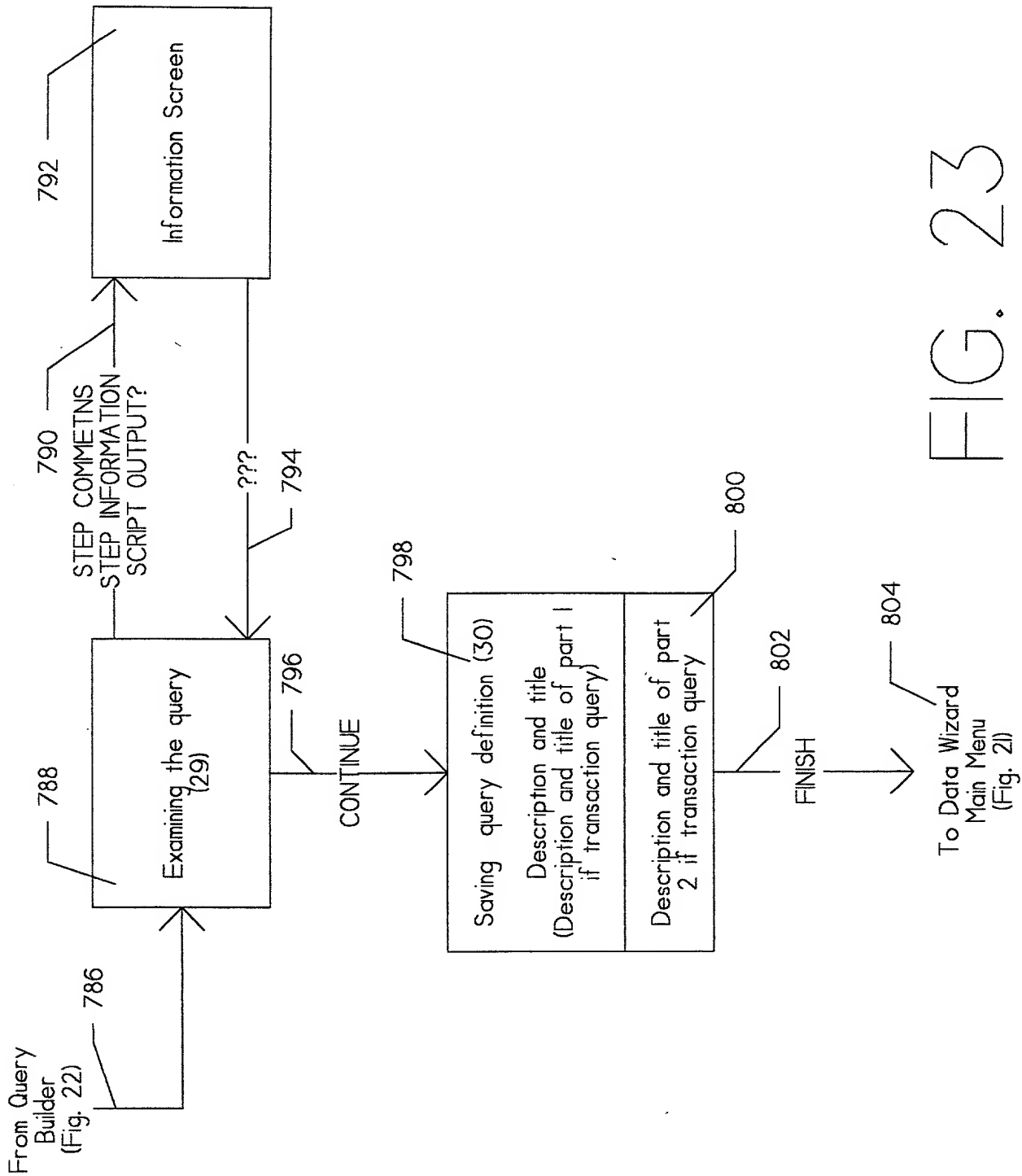


FIG. 23

FIG. 24

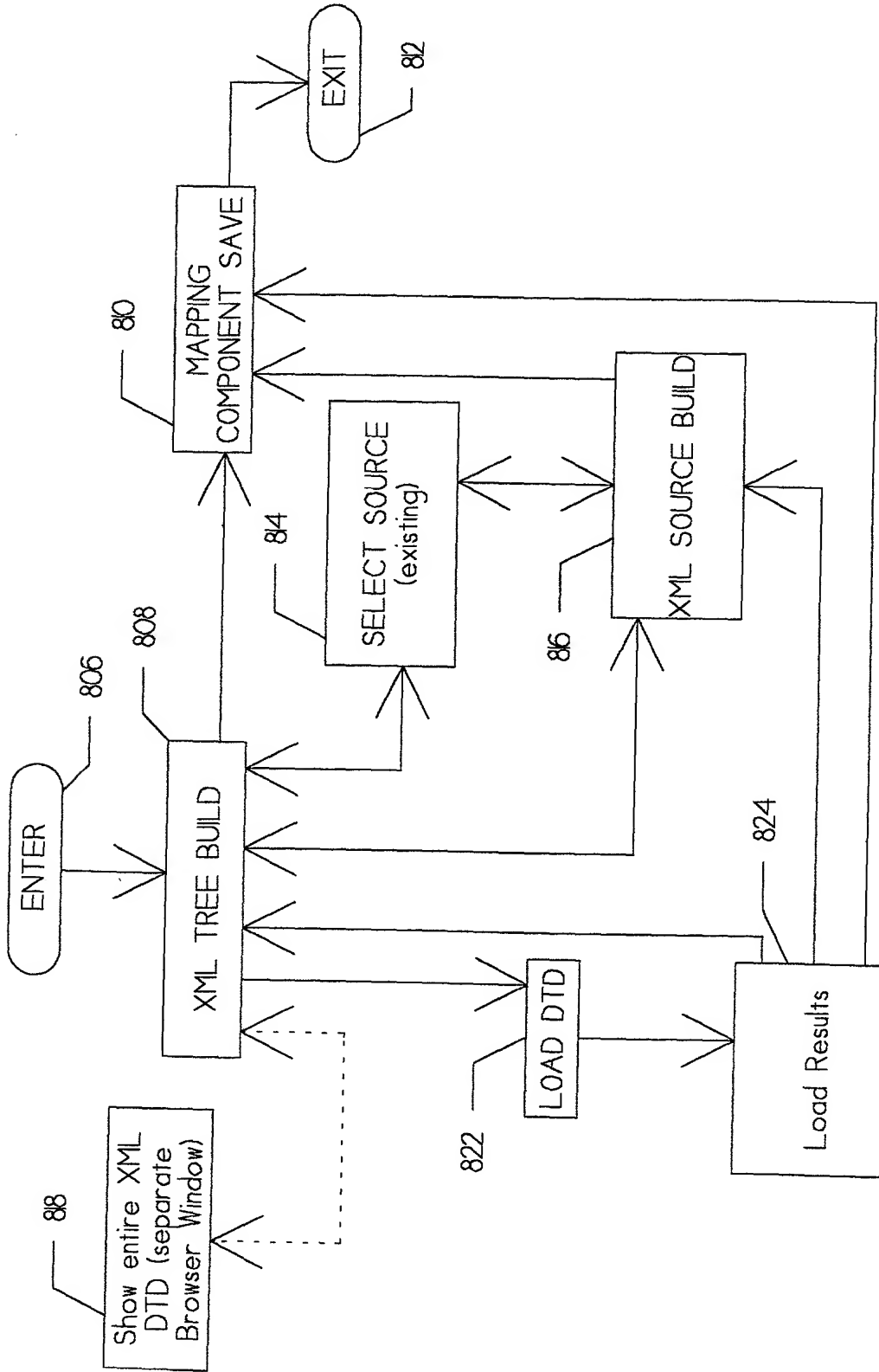


FIG. 24

XML - Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

Component Builder

Home Quit Cancel Help

XML MAPPING ELEMENTS

828 830 836 838 840 842 844 846 848 850 852 854

ELEMENTS 858

Newspaper Article Author Editor Date Edition Headline Byline Lead Body

Variables 856

Tables Article Article Author Editor Date Edition Headline Byline Lead

CONTROLS

Mapping Type Open 868 Name Conversion Capital 864

Table Mapping Complete 866

Element Properties

Item Type Sequence 860 Mapping Row Iterator 862 Value 863

872 874 876

Redisplay Sources Save

FIG. 25

826

XML -Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

Component Builder

UNISYS

Home Quit Cancel Help

XML MAPPING PROPERTIES

Item Type	Element Form
Sequence 882	Required 884
Mapped To	Source/Destination
Complete 886	888
Default Value	
890	
DTD Representation	892
<Element Newspaper ()	
XML Representation	894
<Newspaper> ... </Newspaper>	
	Sources 898

880

830

836

838

840

842

844

846

848

850

852

854

856

858

Elements

ELEMENTS

Newspaper

Article

Author

Editor

Date

Edition

Headline

Byline

Lead

Body

Notes

896

Elements

900

902

904

Return

Show DTD

Save Mapping

FIG. 26

XML - Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

Component Builder

UNISYS

871 Home Quit Cancel Help
XML MAPPING ELEMENTS 872 [Redisplay] 874 [Sources] 876 [Upload DTD] 873 [Save]

ELEMENTS 858
Root

CONTROLS
Mapping Type
Open 868
Table Mapping
Complete 866
Name Conversion
Capital 864

Element Properties
Item Type
Sequence 860
Mapping
Row Iterator 862
Value 863
Element Form
Rqrd Rpt 861

870

FIG. 27

FIG. 28

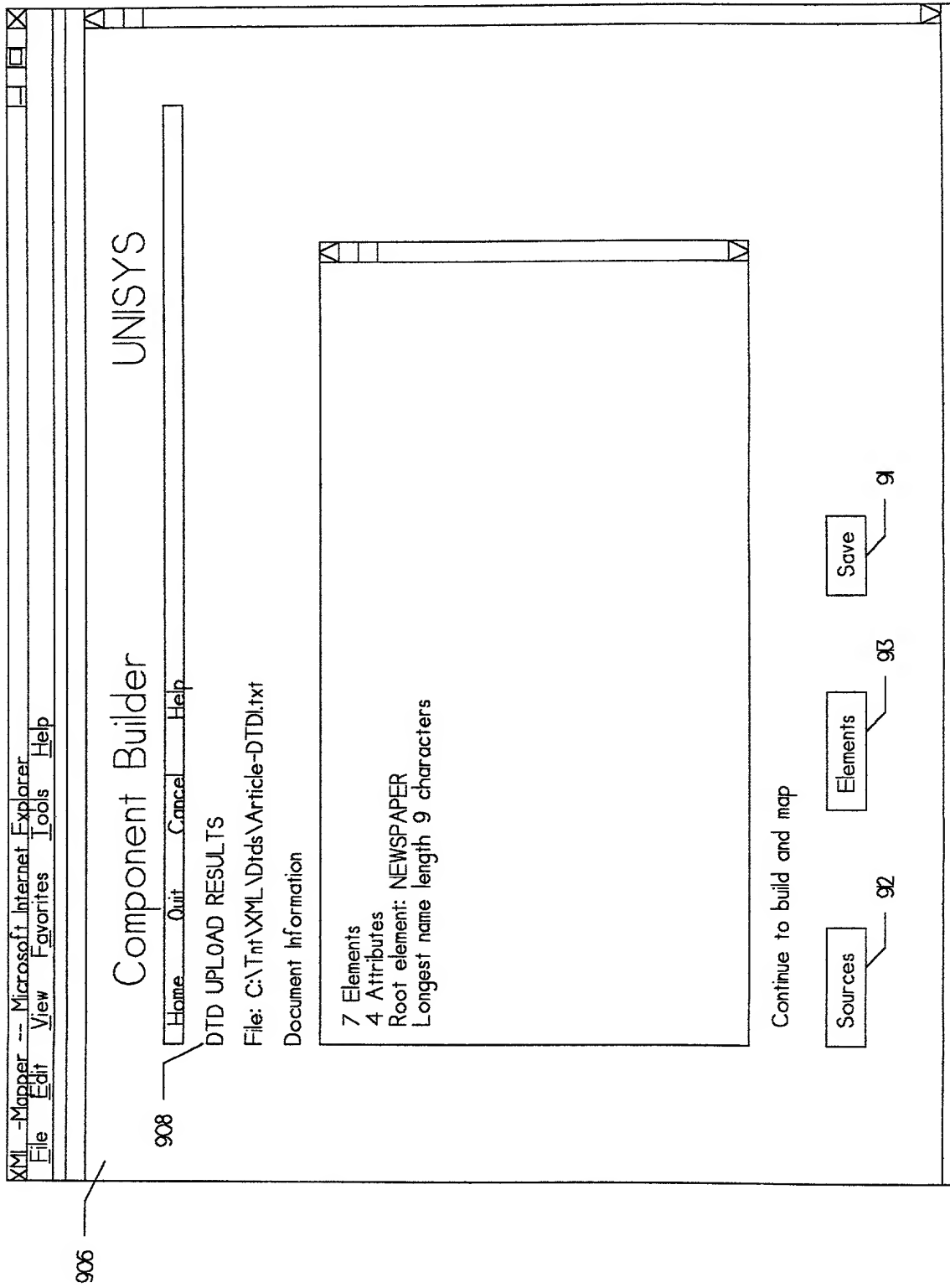


FIG. 28

IDENTIFICATION

Version:AC:0.0 90
Truncation:AC:0 92
TypeCheck:AC:0 93
ShoeData:ED:0:R 94
From:DE:I:R
From:EV:Supplier:20:string
TableType:ED:I:R
TableType:EV:TableInfo:50:string
Inventory:ED:I:R
Inventory:BT:Inventory:7
Inventory:IH:ITEMNUMBER:I0
Inventory:IH:QTY:5
Inventory:IH:TYPE:I0
Inventory:IH:GENDER:6
Inventory:IH:SIZ:3
Inventory:IH:COLOR:3I
Inventory:IH:UNITCOST:I3
Date:AD:I:R
Date:AV:Date:I0:string
Time:AD:I:R
Time:AV:Time:5:string
Row:ED:2:R
Row:BR:I
ItemNr:ED:2:R
ItemNr:EF:I:ITEMNUMBER:I0:R:string
Quantity:AD:2:R
Quantity:AF:I:QTY:5:R:string
Type:ED:2:R
Type:EF:I:TYPE:I0:L:string
Gender:ED:2:0
Gender:EF:I:GENDER:6:L:string:UniSex
Size:ED:2:R
Size:EF:I:SIZ:3:L:string
Color:ED:3:0
Color:EF:I:COLOR:3I:L:string:White
Unitcost:ED:2:R
Unitcost:EF:I:UNITCOST:I3:R:string
Row:EE:2
Row:ER:a
Inventory:EE:I
Inventory:ET:I 96

FIG. 29

100778-122101

DID EXAMPLE

918

<DOCTYPE ShoeData [

```
<ELEMENT ShoeData (From, TableType, Inventory)>
<ELEMENT From (#PCDATA)>
<ELEMENT TableType (#PCDATA)>
<ELEMENT Inventory (Row+)>
<ATTLIST Inventory Date CDATA #REQUIRED>
<ATTLIST Inventory Time CDATA #REQUIRED>
<ELEMENT Row (ItemNr, Type, Gener?, Size, Color?, Unitcost)+>
<ELEMENT ItemNr (#PCDATA)>
<ATTLIST ItemNr Quantity CDATA #REQUIRED>
<ELEMENT Type (#PCDATA)>
<ELEMENT Gender (#PCDATA)>
<ELEMENT Size (#PCDATA)>
<ELEMENT Color (#PCDATA)>
<ELEMENT Unitcost (#PCDATA)>
```

FIG. 30

XML INPUT DOCUMENT EXAMPLE

920
<?xml version="1.0" encoding="ISO-8859-1"?>
<ShoeData>
<From>Roseville Store</From>
<TableType>Low Inventory Count</TableType>
<Inventory Date="2000-12-05" Time="11:51">
<Row>
<ItemNr Quantity="0">32335</ItemNr>
<Type>Tennis</Type>
<Gender>Mens</Gender>
<Size>6</Size>
<Color>White/Zen Grey/New Spruce</Color>
<Unitcost>25.00</Unitcost>
</Row>
<Row>
<ItemNr Quantity="0">35410</ItemNr>
<Type>Running</Type>
<Gender>Womens</Gender>
<Size>5</Size>
<Color>White/Zen Grey/Neptune Blue</Color>
<Unitcost>19.70</Unitcost>
</Row>
<Row>
<ItemNr Quantity="0">35411</ItemNr>
<Type>Running</Type>
<Gender>Womens</Gender>
<Size>6</Size>
<Color>White/Zen Grey/Neptune Blue</Color>
<Unitcost>19.70</Unitcost>
</Row>
<Row>
<ItemNr Quantity="2">35420</ItemNr>
<Type>Running</Type>
<Gender>Womens</Gender>
<Size>5</Size>
<Color>White/Chlorine Blue/Hot Lime</Color>
<Unitcost>19.70</Unitcost>
</Row>
<Row>
<ItemNr Quantity="1">37421</ItemNr>
<Type>Golf</Type>
<Gender>Womens</Gender>
<Size>8</Size>
<Color>White/Fluorescent Pink</Color>
<Unitcost>35.00</Unitcost>
</Row>
</Inventory>
</ShoeData>
<Color>White/Black-Hot Lime, Neo Teal</Color>
<Unitcost>40.00</Unitcost>
</Row>
<Row>
<ItemNr Quantity="0">32474</ItemNr>
<Type>Tennis</Type>
<Gender>Womens</Gender>
<Size>8</Size>
<Color>White/Light Marine-Ultramarine</Color>
<Unitcost>25.00</Unitcost>
</Row>
<Row>
<ItemNr Quantity="1">35310</ItemNr>
<Type>Running</Type>
<Gender>Mens</Gender>
<Size>6</Size>

FIG. 31

400746-1000000

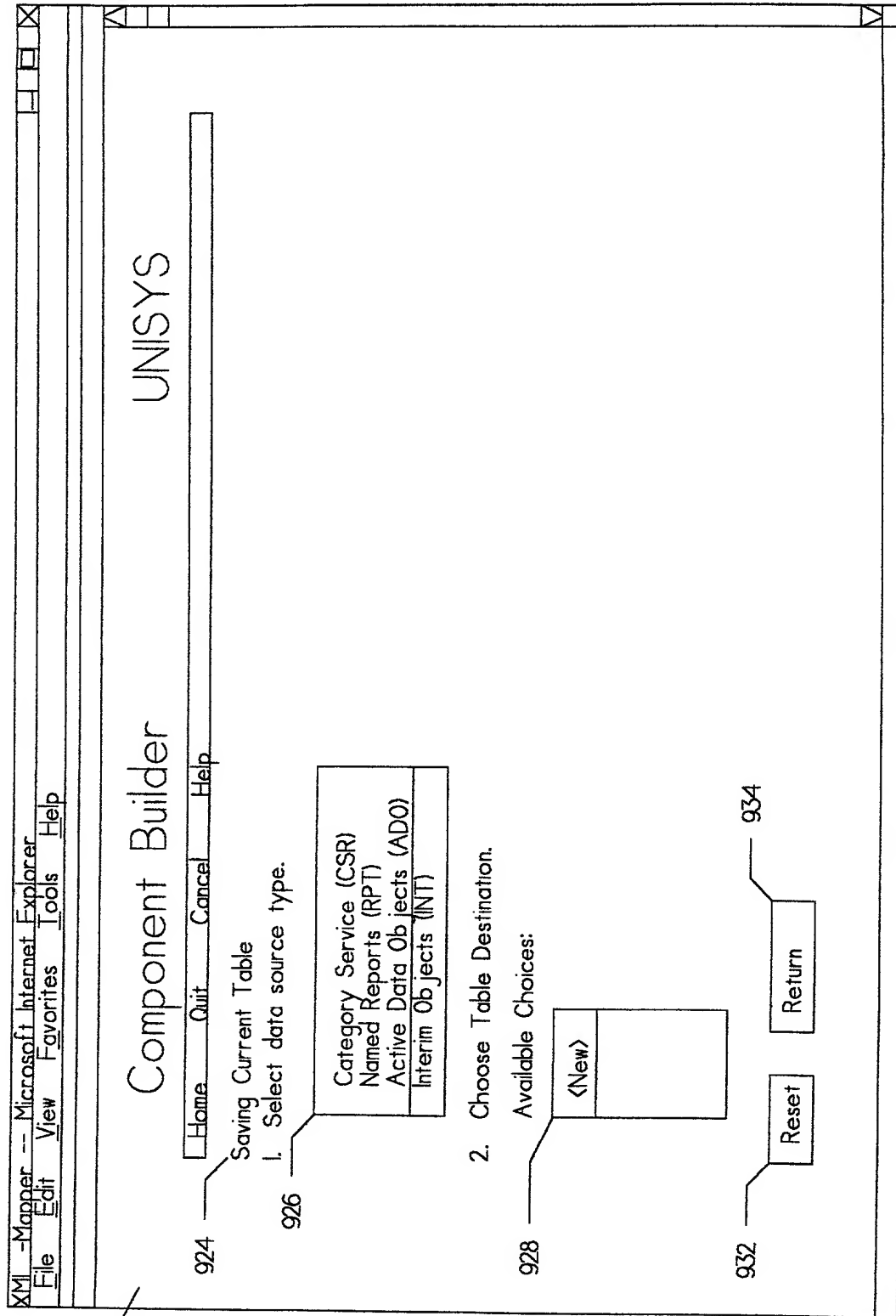


FIG. 32